

SAIKARTHICK C

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ACADEMIC QUALIFICATION

Master of Science in Computer Science, George Mason University, Fairfax, Virginia, USA

Aug'25 - Present

Bachelor of Engineering in Computer Science, Sri Sairam Engineering College, Chennai, Tamilnadu, India,
Affiliated to Anna University, Aggregate/CGPA: 8.95/10.00; Nov'20 – May'24

WORK EXPERIENCE

Junior Engineer, Ford Motor Pvt Ltd, Chennai

Jul'24 – Jun'25

- Implemented and supported serverless services such as Cloudrun, Cloud functions and Eventarc on Google Cloud Platform (GCP)
- Developed a Terraform module (Iac) for deploying the GCP resources, such as Cloud Run and Cloud Functions
- Developed an automation for the internal team to keep scanning and notifying non-rotated secrets to ensure security compliance using Python
- Led the successful re-architecture of a cloudrun shutdown application into a decoupled Front-end and Back-end structure, meeting security compliance requirements with zero downtime; simultaneously integrated security analysis tools (Fossa, SonarQube, Checkmarx) into the development pipeline to automate vulnerability detection, enforce security standards, and ensure code/license compliance for the application.
- Enhanced cloudrun shutdown automation with selective email notifications, significantly reducing email spam and improving the user experience for recurring scheduler users.
- Developed and integrated a time-series cost-savings reporting feature (monthly/quarterly) into the shutdown automation, providing project owners with clear, quantifiable visibility into cloud expenditure reductions.
- Implemented proactive monitoring and alerting for Cloud Run services to detect and flag dropped or missing logs, ensuring critical observability and enabling timely incident investigation and resolution
- Enhanced the shutdown automation platform (built with Go for the backend, JavaScript for the frontend, and PostgreSQL for the database) by adding the capability to stop and restart multiple services concurrently, significantly increasing operational efficiency and providing users with greater flexibility compared to previous single-service limitations, resulting in cost savings of approximately \$2000 per week

INTERNSHIPS

Software Engineer Intern, Ford Motor Pvt Ltd, Chennai

Jan'24 -Jul'24

- Trained in Google cloud platform and its various services
- Participating in Proof of Concept (POC) on serverless service's new features, and make them available to customers
- Worked with Cloud Run, Cloud Functions, and Event Arc

ACADEMIC PROJECTS

Title: Leave Management Portal

Team size: 2

Summary: The Leave Management Portal is an internet-based application designed for college-wide access. It manages leave-related information and facilitates the approval process for both faculty and students. The system was developed using HTML, CSS, PHP, and MySQL.

Title: Canteen Automation Foodzzoi

Team size: 2

Summary: The Canteen Automation System, developed using Pega technology, streamlines canteen operations through cashless transactions and real-time inventory management. It allows students to use UPI, card, and net banking for purchases, while the institution efficiently tracks inventory levels to minimize waste and optimize costs. This system enhances productivity, reduces administrative tasks, and provides a seamless experience for students.

CERTIFICATIONS

- RedHat Certified System Administrator (RHCSA)
- Certified Pega System Architect (CPSA)
- Certified Pega Senior System Architect (CPSSA)
- Google Cloud Certified Associate Cloud Engineer

AWARDS & ACHIEVEMENTS

- Got recognized for automating the scanning and deletion of secrets in GCP secret manager at Ford Motor Company
- Received the “Inspirational Star Award” in academics during the year 2021 – 2024, issued by the Department of Computer Science and Engineering, Sri Sairam Engineering College
- Secured 2nd place in the “KLUG KODERS 2.0: Innovative Design Project Exhibition 2023,” organized by the CSE department during my bachelor's degree program during the year 2023

PUBLICATIONS

- *M Iswarya, C Saikarthick, K Sudarshan*, “Leave Management Portal,” published in IEEE Explore, International Conference on Computational Science and Technology (ICCST) 2022

TECHNICAL SKILLS

- **Programming languages:** C, Python, Java, JavaScript, Go, Terraform
- **Web Frameworks:** HTML, CSS
- **Database:** SQL
- **Cloud Platform:** GCP
- **BPM Tool:** PEGA